

We claim:

- 1 1. A polymorphic form of 9-nitrocamptothecin, the polymorph being
- 2 characterizable as having, by differential scanning calorimetry, an endotherm at
- 3 between 273.9 to 275.9 °C, and an exotherm at between 279.3 and 281.3 °C.
- 1 2. A polymorphic form of 9-nitrocamptothecin according to claim 1, the
- 2 polymorph being further characterizable as having, by differential scanning
- 3 calorimetry, an endotherm at between 274.4 to 275.3 °C, and an exotherm at between
- 4 279.8 and 280.8 °C.
- 1 3. A polymorphic form of 9-nitrocamptothecin according to claim 1, the
- 2 polymorph being further characterizable as having, by differential scanning
- 3 calorimetry, an endotherm at between 274.7 to 275.1 °C, and an exotherm at between
- 4 280.1 and 280.5 °C.
- 1 4. A polymorphic form of 9-nitrocamptothecin according to claim 1, the
- 2 polymorph being further characterizable as having, by differential scanning
- 3 calorimetry, an endotherm at between 274.8 to 275.0 °C, and an exotherm at between
- 4 280.2 and 280.4 °C.
- 1 5. A polymorphic form of 9-nitrocamptothecin, the polymorph being
- 2 characterizable as having, by differential scanning calorimetry, an endotherm at
- 3 between 273.9 to 275.9 °C, and an exotherm at between 279.3 and 281.3 °C.
- 1 6. A polymorphic form of 9-nitrocamptothecin, the polymorph being
- 2 characterizable as having, for Cu $K\alpha$ radiation of wavelength of 1.5406 Angstrom, an
- 3 X-ray powder diffraction pattern with diffraction lines at $^{\circ}2\theta$ values 4.8, 14.2, 19.1
- 4 and 26.8.

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- 1 7. 9-nitrocamptothecin in a form crystallized from acetonitrile.
- 1 8. A polymorphic form of 9-nitrocamptothecin according to claim 7, the
- 2 polymorph being characterizable as having, differential scanning calorimetry, an
- 3 endotherm at between 273.9 to 275.9 °C, and an exotherm at between 279.3 and 281.3
- 4 °C.
- 1 9. A polymorphic form of 9-nitrocamptothecin according to claim 7, the
- 2 polymorph being characterizable as having an X-ray powder diffraction pattern with
- 3 diffraction lines at °2 θ values 4.8, 14.2, 19.1 and 26.8 for Cu $K\alpha$ radiation of
- 4 wavelength 1.5406 Angstrom.
- 1 10. A polymorphic form of 9-nitrocamptothecin according to claim 7, the
- 2 polymorph being characterizable as having, for Cu $K\alpha$ radiation of wavelength 1.5406
- 3 Angstrom, an X-ray powder diffraction pattern with diffraction lines at $^{\circ}2\theta$ values
- 4 4.8, 14.2, 19.1 and 26.8.
- 1 11. A pharmaceutical composition comprising:
- a pharmaceutical carrier; and
- a polymorphic form of 9-nitrocamptothecin, the polymorph being
- 4 characterizable as having, by differential scanning calorimetry, an endotherm at
- 5 between 273.9 to 275.9 °C, and an exotherm at between 279.3 and 281.3 °C.
- 1 12. A pharmaceutical formulation according to claim 11, the polymorph being
- 2 further characterizable as having, by differential scanning calorimetry, an endotherm
- at between 274.4 to 275.3 °C, and an exotherm at between 279.8 and 280.8 °C.
- 1 13. A pharmaceutical formulation according to claim 11, the polymorph being
- 2 further characterizable as having, by differential scanning calorimetry, an endotherm
- at between 274.7 to 275.1 °C, and an exotherm at between 280.1 and 280.5 °C.

- 1 14. A pharmaceutical formulation according to claim 11, the polymorph being
- 2 further characterizable as having, by differential scanning calorimetry, an endotherm
- at between 274.8 to 275.0 °C, and an exotherm at between 280.2 and 280.4 °C.
- 1 15. A pharmaceutical composition comprising:
- a pharmaceutical carrier; and
- a polymorphic form of 9-nitrocamptothecin, the polymorph being characterizable as
- 4 having, by differential scanning calorimetry, an endotherm at between 273.9 to 275.9
- 5 °C, and an exotherm at between 279.3 and 281.3 °C.
- 1 16. A pharmaceutical composition comprising:
- a pharmaceutical carrier; and
- a polymorphic form of 9-nitrocamptothecin, the polymorph being characterizable as
- 4 having, for Cu $K\alpha$ radiation of wavelength of 1.5406 Angstrom, an X-ray powder
- 5 diffraction pattern with diffraction lines at $^{\circ}2\theta$ values 4.8, 14.2, 19.1 and 26.8.
- 1 17. A pharmaceutical composition comprising:
- 2 a pharmaceutical carrier; and
- a polymorphic form of 9-nitrocamptothecin crystallized from acetonitrile.
- 1 18. A pharmaceutical formulation according to claim 17, the polymorph being
- 2 characterizable as having, differential scanning calorimetry, an endotherm at between
- 3 273.9 to 275.9 °C, and an exotherm at between 279.3 and 281.3 °C.
- 1 19. A pharmaceutical formulation according to claim 17, the polymorph being
- 2 characterizable as having an X-ray powder diffraction pattern with diffraction lines at
- 3 °2 θ values 4.8, 14.2, 19.1 and 26.8 for Cu $K\alpha$ radiation of wavelength 1.5406
- 4 Angstrom.

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- 1 20. A method of preparing a polymorphic form of 9-nitrocamptothecin, the
- 2 method comprising:
- 3 crystallizing 9-nitrocamptothecin from acetonitrile.
- 1 21. A method according to claim 20, the polymorph being characterizable as
- 2 having, differential scanning calorimetry, an endotherm at between 273.9 to 275.9 °C,
- 3 and an exotherm at between 279.3 and 281.3 °C.
- 1 22. A method according to claim 20, the polymorph being characterizable as
- 2 having an X-ray powder diffraction pattern with diffraction lines at $^{\circ}2\theta$ values 4.8,
- 3 14.2, 19.1 and 26.8 for Cu $K\alpha$ radiation of wavelength 1.5406 Angstrom.

